Abstracts on Hygiene and Communicable Diseases

VOL 62 (Nos 1-12)
JANUARY-DECEMBER 1987

London:
BUREAU OF HYGIENE AND TROPICAL DISEASES,
Keppel Street, WC1E 7HT



Bureau of Hygiene and Tropical Diseases

Keppel Street, London WC1E 7HT

Telephone: 01-636 8636 Telex: 8953474 (LSHTML G)

BHTD

STAFF

Director
David W FitzSimons, BSc
Editor/Assistant Director
Carolyn A Brown, BSc, PhD, MIBiol
Administrator
Frederick W Norfolk
Indexer/Computer Supervisor
Delphine A Madge
Information Project Officer
Caroline J Akehurst, BSc

Sales/Despatch
William V Harwood
Assistant Editors
Martha P Block
Dianne Fishman, BA
Editorial Assistants
Noreen Daly
Sarah Dowell
Jennifer Gunther
Lorna E Simpson

HONORARY MANAGING COMMITTEE

Barbara Kelly (Overseas Development Administration)
Professor D J Bradley, MA, DM, MRCPath, FIBiol, FFCM
S P Lock, MA, MB, BChir, FRCP
A M Semmence, CB, MD, FRCGP, DObstRCOG
C E Gordon Smith, CB, MD, FRCP, FRCPath
P O Williams, MA, MB, BChir, FRCP (The Wellcome Trust)
P Perris, Secretary (Overseas Development Administration)

ABSTRACTS ON HYGIENE AND COMMUNICABLE DISEASES

(incorporating the Bulletin of Hygiene, first published in 1926)

Abstracts on Hygiene and Communicable Diseases and Tropical Diseases Bulletin are published monthly with an annual index. All enquiries concerning subscription rates should be made to the Administrator.

Please direct all enquiries for advertisement space in this journal to: Ms Dora Curtis, Professional Journals Advertisement Representations Ltd, Sudley Chambers, 8 Sudley Road, Bognor Regis, Sussex PO21 1EU, England. Tel: 0243–868253.

Back volumes should be ordered from Wm Dawson & Sons Ltd, (Back Issues Dept), Cannon House, Folkestone, Kent CT19 5EE, England. Prices on application.

The journals are produced in cooperation with CAB INTERNATIONAL, Wallingford, Oxon, OX10 8DE, England



CONTENTS

PAGE NOS

SPECIAL ARTICLE

Hepatitis D	R1-R16 (Dec)
Ticpatitis D	141-1410	Dec.

ENVIRONMENTAL HEALTH

General	1, 77, 155, 249, 325, 386, 543, 615, 686, 773, 849
Air and atmosphere	
Disasters	
Food 3,	78, 157, 251, 327, 388, 468, 545, 616, 687, 774, 852
Infestation	
Occupational medicine 5, 80, 1	62, 253, 329, 385, 391, 471, 547, 619, 689, 776, 854
Radiation	. 2, 156, 250, 326, 387, 467, 544, 616, 686, 774, 851
	851
Toxicology 4,	78, 158, 252, 327, 390, 470, 545, 617, 688, 775, 853
Venoms and antivenoms	5, 80, 546, 689
Water	
Water supplies	

COMMUNITY HEALTH

General	
Dental health	
Drug abuse	11, 87, 170, 261, 335, 399, 477, 624, 695, 782, 864
Family health	86, 170, 260, 334, 398, 476, 555, 624, 694, 782, 864
Health services	10, 86, 169, 260, 334, 397, 555, 624, 781, 863
Nutrition and malnutrition	
Vital statistics	

DISEASES AND THEIR CONTROL

General
Chronic cardio-respiratory diseases
Communicable diseases—general 90, 174, 263, 336, 401, 480, 558, 626, 698, 785, 866
Bacteriology and bacterial diseases 13, 92, 176, 268, 339, 402, 481, 559, 629, 700, 788, 870
Fungi and fungal diseases 68, 148, 236, 318, 381, 458, 535, 608, 679, 763, 838, 924
General dermatology
Helminthology and helminthiases 74, 246, 323, 384, 463, 540, 612, 682, 771, 847, 933
Microbiology and microbial diseases—general
558, 628, 669, 786, 869
Other communicable diseases
Parasitology and parasitic diseases—general
Protozoology and protozoal diseases
767, 842, 929
Virology and viral diseases
815. 898
Epidemiology
Metabolic diseases
Neonlastic diseases 11 89 171 262 400 479 557 697 784 865

Other non-commun	icable diseases and diseases of unknown aetiology 12, 90, 173,
	263, 401, 480, 557, 626, 865
Therapeutic agents	
BOOK REVIEWS	see subject index
AUTHOR INDEX	
SUBJECT INDEX	979
CEOCRAPHICAL	INDEY 1064

LIST OF CONTRIBUTORS 1987

A E Ades, BSc, PhD, MSc E Agius, MD, FRCPath, DPH, DipBact B W Allen, FIMLS, MIBiol K Apostolov, MD, PhD, DipMicrobiol Ann Ashworth, BSc, PhD A H Balfour, BTech, MTech, MIBiol, PhD M Balls, MA, DPhil, CBiol, MIBiol Barbara Bannister, BSc, MSc, MRCP M R Barer, MB, BS, MSc D C Barker, MA, BSc, PhD R A E Barrell, BSc, PhD J C Barrett, MSc, PhD Janice Bates, BSc, BA, MSc, PhD D J Bauer, MA, PhD, MB, BChir, FRCP, **FRCPath** A J Beale, MD, FRCPath, FIBiol, DipBact A S Beare, MD, FRCPath, DTM & H Professor C P Beattie, MA, MB, ChB, DPH, **FRCPath** P D Bennett, BSc Valerie Beral, MB, BS, MRCP P Berry, BSc, FIMLS K A Bettelheim, MSc, PhD, MRCPath, DIC E A Boulter, MB, BS D A Broadbent, BSc, PhD Carolyn A Brown, BSc, PhD, MIBiol Professor J R Brown, BSc, MSc, PhD, MPS Professor L J Bruce-Chwatt, CMG, OBE, MD, MPH, FRCP, DTM & H D M Bryceson, MD, FRCP(Edin), DTM & H N Cammack, MSc, PhD P J R Challen, MRCS, MRCP A B Christie, MA, MD, FRCP, FFCM, DPH J Christophers, BSc, PhD P D Clarke, MA, BM, BCh, MRCP Y M Clayton, PhD Joyce D Coghlan, BSc, PhD M J Colbourne, OBE, MB, ChB, FRCP, FFCM, DPH, DTM & H G C Cook, MD, DSc, FRCP, FRACP W Crewe, MSc, PhD G W Crockford, BSc, MIBiol P B Crone, MD, DipBact J G Cruickshank, MA, MD, FRCPath G W Csonka, MD, FRCP, FRCP(Edin) G E Cumper, BA, PhD A G Dalgleish, BSc, MB, MRCP, FRACP Joan M Davies, MA, PhD M E Devey, BSc, PhD R B Douglas, PhD B S Drasar, PhD, MRCPath Elizabeth Edmond, MD, ChB, FRCPath T S J Elliott, PhD, MB, ChB, MRCPath, BTech, BMedSci D S Ellis, MA, DM M Ellis, MRCP, DCH, BSc, DRCOG

J McK Ellison, BA, PhD, FInstP J Eyers, BA, MLS, MIInfSci PEM Fine, AB, MSc, PhD, VMD D W FitzSimons, BSc H W S Francis, MA, MB, BChir, FFCM, DPH C M Angela Gardner, MSc Professor P C C Garnham, CMG, DSc, MD, FRS, FRCP, DPH Elizabeth Gascoign, FIL D Gazzi, BSc, MSc, AMIOSH C G Gemmell, BSc, PhD, MIBiol S H Gillespie, MB, MRCP, MRCPath D J Girling, MA, BM, FRCP Uta S Goodman, PhD L G Goodwin, CMG, FRCP, FRS E A Gould, BSc, PhD J M Grange, MD, MSc D Greenwood, PhD, DSc, MRCPath Melody Greenwood, BSc, MPhil, MIBiol M R Hails, BSc, DipAgricEcon Ann Hawker R J Hay, DM, MRCP, MRCPath Veronica M Hearn, MSc, PhD Linda Ho, MSc, PhD, MB, BS P N Hoffman, BSc B Hofman, MD Professor P F Holt, PhD, DSc, DIC, CChem, FRIC, FIBiol Professor M Hooper, PhD, BPharm, MRSC, **CChem** W Houston, BSc, DipLib, MPhil, MIInfSc T J Humphrey, BSc, PhD R G Huntsman, MD, FRCP, FRCP(C), **FRCPath** Professor Rosalinde Hurley, LLB, MD, **FRCPath** Ruth Hussey, MB, ChB, DRCOG D N Hutchinson, MD, DipBact Elizabeth M. Illingworth, BSc D J Jeffries, BSc, MB, BS, MRCPath D C Jenkins, BSc, PhD P Jones, MD, FRCP, DCH Rosslyn Kay, MA P M Kaye, PhD, BSc, ARCS Jean King, BSc, MSc B R Laurence, BSc, PhD C J Leake, BSc, PhD O M Lidwell, MA, BSc, DPhil Åsa Ljungh-W, MD, PhD S B Lucas, MRCP, MRCPath J P Lyons, MD, TDD D Mabey, BM, BCh, MRCP Carol P MacCormack, BSc, MA, PhD A C McDougail, MD, MRCP, FRFPS, DObstRCOG Professor D W R Mackenzie, BSc, PhD

T J McManus, MB, ChB, MRCOG B Madge, ALA Mary J Marples, MA, MD, DTM & H Diana Martin, MSc, PhD H Mellinghoff, MD, DTM & H Bernadette Modell, MA, PhD, MB, BChir W M U Moffat, MD, MRCP, DCH C A Morris, BSc, MD, DipBact D L Morris, MB, ChB, FRCS, FRCSE, MD, PhD P P Mortimer, MD, MRCPath S M Moss, MSc R Murray, OBE, BSc, MB, ChB, FRCP, DPH, DIH, FFOM K G Nicholson, MB, MRCP W T Norris, ScD, FIEE P Nunn, BA, MB, BS, MRCP T W Osborn, MB, BS R Owen, OBE, MB, ChB, FFOM, DMJ, DIH, LRSC J S Oxford, BSc, PhD G Pasvol, MB, ChB, MRCP, DPhil Penny Phillips-Howard, BSc, SRN T L Pitt, MPhil, PhD Grażyna I Poźniak N W Preston, MD, FRCPath, DipBact N H Rathod, MB, BS, FRCP, FRCPsych, DPM T Rathwell, BA, MA, PhD G H Rée, MB, BChir, FRCP(Edin), DCMT Professor J H Renwick, PhD, DSc, MB,

ChB, FRCP, FRCP(Glas), MFCM

M D Richardson, BSc, PhD

Rosemary C Rogers, MSc, PhD

J A Roberts, MSc, PhD

Joanna C Rodhouse, BSc

Professor G A Rose, DM, FRCP, FFCM P W Ross, TD, MD, MRCPath, MRCPE, MIBiol, FLS P G Sargeaunt, AIMLS, MIST J K Schönfeld, MD Susan Skidmore, PhD, BSc M B Skirrow, PhD, MB, ChB, MRCPath, DTM & H Mary P E Slack, MA, MB, BChir, MRCPath Professor M W Steward, BSc, PhD, DSc, **FRCPath** R S Tedder, MRCP, MRCPath Gesine Thomas, MB, BS, MD D I Thurnham, BSc, PhD J D Treharne, BSc, PhD G C Turner, MD, FRCPath G S Turner, BSc, PhD R D Verschoyle, BSc, MPhil A Voller, PhD, DSc Sheena A Waitkins, BSc, PhD G J A Walker, MSc, MB, BS, MRCS, LRCP, MFCM, DCM, DObstRCOG M E Wallis, BDS, LDS, RCS M H Wansbrough-Jones, MB, MRCP, MSc K C Watson, MD, MRCP(Edin), FRCPath Professor G Webbe, DSc, MSc, FIBiol W R C Weir, MB, ChB, MRCP Antonnette A Wieneke, drs(Holland) W R White, BTech, MIBiol A E Wilkinson, MB, BS, FRCPath J R Willcox, MB, BS, MRCS, LRCP, DCH M J Wiselka, BM, MRCP

A E Wright, TD, MD, FRCPath, DPH,

D J M Wright, MD, MRCPath

D Young, BSc, DPhil

ERRATUM

DipBact

Abst. 2079 Line 3, "... 1986, 61, abst. 4345" should read "... 1986, 61, abst. 4545".

